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2004

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STATEMENT BY ARE

10/768,724 Application Number **JANUARY 30, 2004** Filing Date TAKEAKI EBIHARA, ET AL. First Named Inventor UNKNOWN **Group Art Unit** UNKNOWN **Examiner Name** Attorney Docket Number AMAT/8736/DSM/BCVD/JW

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(Use as many sheets as necessary),

of 2 Sheet 1

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.¹	Number-Kind Code ^{2 (f known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
EC	A1	US-6,627,933 B2	09/30/2003	Juengling	
ì	A2	US-6,611,316 B2	08/26/2003	Sewell	
	A3	US-6,573,030 B1	06/03/2003	Fairbairn, et al.	_
	A4	US-6,541,397 B1	04/01/2003	Bencher	
	A5	US-6,514,667 B2	02/04/2003	Angelopoulos, et al.	•
	A6	US-6;511,791 B1	01/28/2003	Bukofsky, et al.	
	A7	US-6,483,571 B1	11/19/2002	Shiralshi	
	A8	US-6,458,516 B1	10/01/2002	Ye, et al.	
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•	A16	US-6,080,529	06/27/2000	Ye, et al.	
	A17	US-6,042,993	03/28/2000	Leuschner, et al.	
	A18	US-5,830,332	11/03/1998	Babich, et al.	
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TT	A21	US-2003/0091938 A1	05/15/2003	Fairbaim, et al.	
	A22	US-2002/0001778 A1	01/03/2002	Latchford, et al.	
7	A23				
	A24				,
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	A26				
	A27				

Submission Date

9/30 **Date Considered**

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Substitute	ORMATION DISCLOSURE	Application Number	10/768,724		
				Filing Date	JANUARY 30, 2004
INFO	RMATION D	ISCLOS	SURE	First Named Inventor	TAKEAKI EBIHARA, ET AL.
STAT	STATEMENT BY APPLICANT			Group Art Unit	UNKNOWN
				Examiner Name	UNKNOWN
	(Use as many sheets a	is necessary))	Attorney Docket Number	AMAT/8736/DSM/BCVD/JW
Sheet	2	of	2	Submission Date	April 30, 2004

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
EC	B1	CANON USA, "Canon Extends Lithography Roadmap: Presents Resolution Capabilities Beyond k1 or 0.25 at BACUS" http://www.usa.canon.com/templatedata/pressrelease/20030904_photomask.html (2 pages), press release dated September 4, 2003.	
	B2	SALEEM H. ZAIDI, ET AL. "Nonlinear Processes to Extend Interferometric Lithography" SPIE Conference on Emerging Lithographic Technologies III, March 1999, SPIE Vol. 3676, pp. 371-378.	
	В3	BRIAN TYRRELL, ET AL. "Investigation of the Physical and Practical Limits of Dense-Only Phase Shift Lithography for Circuit Feature Definition" J. Microlith., Microfab., Microsyst., Vol. 1 No. 3, October 2002.	
	B4	TAKEAKI EBIHARA, ET AL. "Beyond k ₁ =0.25 lithography: 70nm L/S patterning using KrF scanners" Proc. SPIE 5256-105, 10 pages, December 2003.	·
\bigvee	B5	TAKEAKI EBIHARA, ET AL. "150nm Dense/Isolated Contact Hole Study with Canon IDEAL Technique" 21st Annual BACUS Symposium on Photomask Technology, Proceeding of SPIE Vol. 4562, April 2002, pp. 1068-1076.	
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Examiner	<i>(</i>	Date Considered 9/30/	6

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Sheet 1 of 2

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Modication Number	10/768,724	
Filing Date	JANUARY 30, 2004	
First Named Inventor	TAKEAKI EBIHARA, ET AL.	
Group Art Unit	1763	
Examiner Name	UNKNOWN	
Attorney Docket Number	AMAT/8736/DSM/BCVD/JW	
Submission Date	7/2 2005	

	U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
EC	A1	US- 6,653,735 B1	11/25/2003	YANG, ET AL.					
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\Box	A3	US- 6,352,922 B1	03/05/2002	KIM					
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JANUARY 30, 2004

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of 2

First Named Inventor	TAKEAKI EBIHARA, ET AL.
Group Art Unit	1763
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/8736/DSM/BCVD/JW
Submission Date	7/7 2005

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
EC	B1	PCT International Search Report and Written Opinion dated June 8, 2005 (AMAT/8736.PC)	
EC	B2	WEI LIU, ET AL., "Generating Sub-30nm Poly-Silicon Gate Using PECVD Amorphous Carbon as Hardmask and Anti-Reflective Coating" Proceeding of SPIE, (2003) Vol. 4050, pp. 841-848.	-
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Sheet 1 of 2

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Art Unit	1763	
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			U.S. PATENT I	DOCUMENTS	
Examiner Initials	Cite No.1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
EC	A1	US-5,022,959	06/11/1991	Itoh, et al.	
	A2	US-5,674,573	10/07/1997	Mitani, et al.	
	A3	US-5,998,100	12/07/1999	Azuma, et al.	
	A4	US-6,214,637	04/10/2001	Kim, et al.	
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	A6	US-2004/0023502	02/05/2004	Tzou, et al.	
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	A8	US-2004/0166691	08/26/2004	Nieh, et al.	
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		FOREIGN PA	ATENT DOCU	IMENTS		
Examiner Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	,	
Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>Il known</i>)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Τ⁴
EC	B1	DE 103 28 578 (English abstract)	02/26/2004	Matthias		Х
i	B2	EP 0 381 109 (English translation)	01/29/1990	BIRKLE, ET AL.		х
	B3	EP 0 901 156	03/10/1999	STEINER		
	B4	JP 09 045633 (English abstract)	02/14/1997	YASUHARU		X
1/	B5	JP 11 026578 (English abstract)	01/29/1999	TETSUJI		X
Ψ	B6	WO 00/05763	02/03/2000	NAIK, ET AL.		
Examiner Signature		Circlin	Date Consid	lered 9/3	30/05	

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EC	C1	PCT Notification of Transmittal of the International Search Report dated May 31, 2005 for PCT/US05/008070. (AMAT/8245PCT)		
EC	C2	PCT Written Opinion dated May 31, 2005 for PCT/US05/008070. (AMAT/8245PCT)		
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